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OBSERVATIONS

ON

LEPROSY AND ITS CURE.

(WITH TESTIMONIALS FROM MEDICAL MEN.)

BY

NARAYAN BHIKAJI.

(Who died in apl: last ~~year~~ (1905)
his daughter
Dr. maneekbai Land Specialist in
Leprosy, resides ~~near~~ at the Thakordwar Road
apposit Dr. Ferera's Dispensary.

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LEPROSY.

In the year 1862 the late Dr. Bhau Daji, who was my brother-in-law, and who was noted as the first investigator of this disease, with whom I was for about twenty years, discovered two drugs for the cure of leprosy. In treating cases of the disease he used them internally and externally in liquids. He succeeded in curing some cases of very mild forms; but those drugs were of no avail in cases of severe forms. Since his death I have taken up the subject and treated some cases; but not with better success than that which Dr. Bhau had got. However, I have continued my efforts to find some better remedy for the cure of the disease; and being materially assisted in my work by my daughter, Manakbai Lâd, who has received an English education, I have succeeded in discovering one valuable drug for internal use which was not known. I mixed this drug and the drug internally used by Dr. Bhau in treating cases of leprosy and treated two cases of anæsthetic and tubercular forms with the mixture which, I found, worked remarkably well. Dr. Bhau used only one drug for application, but I discovered three more drugs for the purpose, which, with the drug used by Dr. Bhau, also worked remarkably well. The system on which Dr. Bhau treated cases of leprosy required much improvement; and I have greatly improved it. And I am very glad to mention that I have succeeded in curing twenty two cases of severe forms both anæsthetic and tubercular on the improved system. For the present, I have got under my treatment forty-three patients, including three Europeans. Twenty of these patients have been suffering from the anæsthetic form of leprosy, fourteen from the tubercular form and nine from white leprosy or leucoderma. From my experience I find that cases of long standing take more than two years for cure, and ordinary cases less than two years for complete cure.

Many are of opinion that leprosy is an incurable disease. but that the severity of it in its early stage can be mitigated by adopting hygienic measures and improving the general condition of a leper and also by adopting unstimulating diet, keeping him fairly clad and clean, giving abundant exercise in the open air, and by internal administration of Chaolmogra oil or still better by giving him pills containing Gynocardic Acid, Gurjan oil and at times Sarsaparilla and other vegetable drugs. Most European Physicians who have given a trial to the use of specifics in Leprosy are of opinion that leprosy can not be iradicated from the system ; but I differ from them, when they believe that leprosy is incurable, as I can affirm from my own experience that the disease can be cured with a fair degree of success, if measures be adopted early enough to combat the progress of the loathsome disease. My Medicines are very efficacious for the cure of leprosy ; and the patients whom I have cured within my experience and observations, have not got relapse, although they have been watched for a period between two and three years

In order to show that leprosy is not incurable, I took Photos of some marked Cases and showed them, with the patients to Dr. M. G. Deshmukh, B. A. B.S.C. M. D. Syndic of the University of Bombay, Justice of the Peace, late Assistant Chemical Analyser to the Government of Bombay. Dr. V. V. Gokhle, M. A. M. D. Fellow of the University of Bombay. Dr. D. A. D'Monte. M. D. Justice of the Peace and Fellow of the University of Bombay. Dr. Shamrao Narayan, G. G. M. C. Justice of the Peace, and Fellow of the University of Bombay. Dr. G. B. Kher, L. M. and S., Dr. F. X. Ferreira, L. M. and S., Dr. Balkrishna Sakharam, G. G. M. C., before the commencement of treatment.

These gentlemen were kind enough to mark from time to time the progress which my patients had made under my treatment and gave me testimonials, which will show that

there is some remedy for the cure of leprosy, although it is hopelessly said that there is none. The testimonials are as follows:—

Mr. Narayan Bhikaji kindly showed me two cases of tuberculous and one of anæsthetic form of leprosy. All of them were cases of marked type. The patches were large and situated on various parts of the body. In one case of tuberculous leprosy there were discharging sores on the palate and the toes. Under his special treatment I saw all the three cases improve rapidly during a course of about eight months. The sores healed completely within one month; and anæsthesia and hypertrophy have disappeared in all of them The cases were shown to me from month to month; and I watched the progress with great surprise to myself. The cure rapid and almost complete as it was, appears wonderful to me. This method of treatment, therefore deserves a wider trial.

M. G. DESHMUKH.
B. A., B. S. C., M. D.

Mr. Narayan Bhikaji kept under my observation two cases of anæsthetic and one of tuberculous form of leprosy. All of them were nearly of three years duration and of a marked type. The patches were large and situated on various parts of the body, raised, discoloured and completely anæsthetic. In the case of tuberculous form there were tubercles in the lobes of the ears, eyebrows, cheek and chin but the legs have chronic ulcers, one in particular over the shin which he says has been in existance for several years.

This was a particularly interesting case, in as much as all the sores healed under the use of Mr. Narayan's specific Medicines, including the old ulcers over the shin, and up to the time no fresh ulcers had formed.

All these three cases improved during the course of one year. The effect observed, was the healing of the sores followed by the disappearance of hypertrophy and anæsthesia in all of them.

The cases were shown to me from month to month; and I watched the progress with great surprise to mark the improvement.

They are now perfectly free from the disease for the last four months.

V. V. GOKHLE, M. A. M. D.

I have seen one of Dr. Narayan's patients who was suffering from anæsthetic leprosy. She was a young lady of 17 with anæsthetic patches on her cheeks, ears and forehead, and making her features perfectly unrecognisable. She had also some large patches on her thighs and legs.

I have watched the case carefully since she was placed under Dr. Narayan's treatment ; and I can say without exaggeration that I was rather surprised to mark the improvement in her. She is now perfectly free from the disease for the last three months.

D. A. D'MONTE, M. D.

A patient aged about twenty-two, who was suffering from anæsthetic leprosy, was shown to me by Mr. Narayan Bhicaji. He had tuberculous sores on the palate and the toes which were discharging ; and they wonderfully healed within a short time. I have watched the case from time to time ; and he is now free from the disease.

I am of opinion that his mode of treatment will do immense good to persons suffering from this dreadful malady.

SHAMRAO NARAYAN,
G. G. M. C.

Mr. Narayan Bhicaji kindly kept under my observation two cases of anæsthetic and one of tuberculous form of leprosy. All of them were nearly of three years duration and of a marked type. The patches situated on various parts of the body were raised, discolored, and completely anæsthetic. The lobes of the ears were enlarged and lumpy—the lumps being smooth and irregular. The face and other affected parts were smooth and thickened. In the cases of tuber culous form there were discharging sores on the palate and toes.

All these cases improved during the course of about 8 months. The first effect observed, was the healing of the sores followed subsequently by the disappearance of hypertrophy and anæsthesia.

The treatment to become throughly effective, requires to be followed in detail particularly in regard to regimen. His method of treatment is, I think, almost sure to give relief and deserves, therefore, a first trial in such cases.

G. B. KHER,
L. M. & S.

I sent two cases of Leprosy to Dr. Narayan for treatment. The 1st case was that of an East Indian Gentleman who had been suffering from anœsthetic Leprosy for two years. The patient rapidly improved ander Dr. Narayan's able and successful treatment and he was soon entirely cured. It is now three years that the paietnt has been cured. And during this time I have repeatedly examined him and he has had no relapse.

The Second patient was a Goanese woman suffering from Tubercular Leprosy for about a year. Her general appearance when she first consulted me was hideous. Under Dr. Narayan's treatment, the results have been marvellous. She is entirely cured and so thorough is the cure that she has for

the past two months been working as an Ayah in one of the richest Parsee houses in Bombay. From the two cases I myself sent and which were so rapidly and marvellously cured and from the conversations I have had with other medical men who have also seen Dr. Narayan's many other successful cases, I have come to the conclusion that Dr. Narayen's remedy is the remedy for leprosy & that his treatment should be given a fair trial.

I would advise all leprous patients to give Dr. Narayans treatment the 1st trial and I am sure they will not be disappointed with the results.

F. X. FERREIRA L. M. & S.

I have the greatest pleasure to state that I have examined one of Mr. Narayan Bhikaji's patients who was suffering from tuberculous form of leprosy for about four years. Her cheeks, nostrils, eyebrows, ears, hands and feet affected with tuberculous swelling. There was complete loss of sensation in the toes and fingers; ulcers present on both the ankles. Under his special treatment I saw this case improved during the course of one year and four months. The sores healed completely within two months.

The first effect observed was the healing of the sores followed by the disappearance of hypertrophy and anæsthesia.

I have watched this case from time to time and she is now completely cured from the disease.

BALKRISHNA SAKHARAM.
G.G.M.C.

Some friends suggest my disclosing the medicines and the system on which I treat cases of leprosy; I hope to be able to do so, as soon as I complete my observations on the subject.

The following are some of my observations on leprosy in which my daughter has greatly assisted me.

Observations on Leprosy.

There are two forms of leprosy, namely, anæsthetic and tubercular.

Symptoms of the anæsthetic form.

A patient suffering from the anæsthetic form feels heaviness and is liable to cold. There is a burning, shooting and piercing pain in his fingers and toes. There is weakness and involuntary trembling in the parts.

In this form of the disease there is insensibility in the ears, face and extremities. The parts that are insensible, are ulcerated, joints enlarged, and the toes and fingers become contracted and flat.

Symptoms of the tubercular form.

The first symptom of this form is an eruption on the face, the trunk and extremities which become afterwards swollen. The parts affected are not much insensible. Sometimes there is no insensibility at all. The fingers, and toes become contracted and ulcerated ; and bony scabs fall off from the ulcerated parts. In the advanced state of this form of the disease the mucous membrane of the mouth is sometimes affected. A young man by the name of Keru Mukund, who is a washerman by caste, was suffering from this form of the disease for about three years and had got sores in his palate, through which nasal discharges were passing into his mouth before the commencement of treatment. I had shown this patient to Dr. Desmukh, Dr. Shamrao Narayan and Dr. Kher who watched the progress of the disease and found, to their great surprise, that the sores were healed completely within one month.

Causes of the disease

The causes of the disease seem to be uncleanliness, unwholesome food, wearing of dirty clothes, living in damp houses, intemperance and sexual excesses.

Contagion of the disease.

This disease can be contracted by contagion. A girl, who was under my treatment for about one year, and whom I successfully cured, stated to me, when I enquired of her about the past history of the disease, that she had contracted it, while she was nursing her brother, who was a leper, washing his clothes, and often sitting near him

Heredity.

I find from my experience that leprosy does not seem to be hereditary. Two years ago I cured a patient who was suffering from the tubercular form of the disease. There were many members of the family to which he belonged ; but every one of them was free from the disease except my patient. What I am inclined to think, is that if the disease is hereditary, some more members of the family must be afected with the disease. On enquiry I found that some old members of the family died entirely free from the disease.

White Leprosy or Leucoderma.

White leprosy or leucoderma is somewhat related to black leprosy, but it is of a milder form.

Symptoms of White Leprosy or Leucoderma

Patches or spots generally appear about the shoulder, hips, behind the elbows, and in the front of the knees. The patches or spots are pinkish, round, and without scales. The centre of these patches or spots is insensible ; and no scabs are falling off.

White leprosy is not contagious and does not seem to be hereditary. The causes of it are the same as those of black leprosy. When this disease begins, it can be easily cured, but in its advanced state it takes for cure unusually more time.

Particular care must be taken that skin diseases, such as scabies, eczema, &c., are not confounded with leprosy.

Leprosy is sometimes attended with fever. When the fever is on, medicines must be immediately stopped ; and after it goes off, the medicines should be continued.

CASE No. I.

A. F. Buttello—Caste Portuguese, aged 39, native of Koli—Kullian, Tanna district, admitted on the 14th of December 1888, having tuberculous Leprosy of a mild type which he had for a year and a half after its development. The skin of the forehead, nose, cheeks, lobes of both the ears thickened and swollen. There were reddish-black patches of elevated skin on the trunk.

In this case, swelling lessened and discoloration became less marked within a month. At the end of two months, thickening disappeared, and swelling abated considerably; and on the 18th of July, after a period of 7 months, the notes recorded are :—The face has assumed its natural color, all the thickening of skin as well as elevations (discoloured patches) have disappeared; no trace of thickening perceptible on any part of the body. General health fair.

CASE No. II.

Miss. N. Caste Portuguese, aged 17 years, Native of Bandora, Tanna Collectorate, admitted on the 14th of June 1889 with anæsthetic leprosy of an incipient form which she had for 8 months after development. There was a swelling over the whole skin of her face, forehead, cheekbones, chin, and lobes of both the ears thickened and swollen. Reddish-black, circular, and irregular patches of elevated skin visible on the trunk.

In this case, swelling and discolouration became less marked within two months. At the end of four months discolouration disappeared and swelling abated considerably. And on the 17th of August 1890 after a period of 8 months, the notes recorded are :—Discolored patches over the whole body all disappeared and sensation restored. The swelling of the face and some of the white coloured marks which were visible over the cheekbones entirely disappeared. It was hereditory in her case as her brother and also one of her grand parents, died of leprosy.

CASE No. III.

Narayen Dadoba Mankamay, caste Goldsmith, aged 27 years, residing in Khetwadi, 1st Carpenter Street. He was suffering from anæsthetic leprosy for three years and a half. There was thickening over the forehead, cheekbones, nose,chin; and both the ears with margins were enlarged and swollen with elevated discoloured patches. The hands and legs with fingers and toes were swollen and insensible, with glossy colour upto knee joints.

In this case the thickening of the forehead, cheekbones, nose and skin with elevated discoloured patches altogether disappeared. Both the ears with margins assumed the natural colour and shape. The swelling and insensibility of the hands and legs with fingers and toes with glossy colour have subsided and they were restored to the former colour and shape. Treatment commenced from the 27th of February 1890 upto the 30th of May 1891.

CASE No. IV.

Dagdoo Rukhmajee Mohitay, caste Maratha, aged 24 years, residing near Bhooleshwar. He had been suffering from anæsthetic leprosy for two years. The skin of the face was in thickening condition, a very large tubercle being over the forehead, and small, circular, elevated, red patches over cheekbones, nose and chin. The lobes of the ears, forearms, hands with fingers were slightly swollen. There was a discharging deep ulcer in the ring-finger of the left hand with swelling. Treatment commenced on the 14th of August 1890.

In this case, thickening of the skin of the face, very large tubercles and the small circular elevated red patches over the cheekbones, nose and chin disappeared altogether. The swelling over the lobes of the ears, forearms, hands with fingers gone up, and they turned to the original shape and colour. The discharging deep ulcer of the ring-finger of the left hand healed up entirely. The patient is now free from the disease. The treatment was commenced from the 14th of August 1890 upto the 15th of June 1891.

CASE No. V.

Herroo Mucoond, caste Marathi Dhobi, aged 22 years, residing at Mahim in Aagar. The first symtoms being a pricking sensation over the skin of the face, hands and legs, also pain in the joints; ulcerations confined to the interior aspect of both the legs and also deep ulcer to the palate quite under the nasal bone through which nasal discharge was passing into the mouth. The face was strongly marked with tuberculous appearance, having tubercles over the forehead, cheekbones, chin, lips, lobes and helix of both the ears. The hands and legs with fingers and toes up to elbow joints and upto knee-joints downward were swollen and anæsthetic with glossy appearance. There were some small tubercles over the ankles and knees. At the end of the 8 months the notes recorded are :—

In this case thickening of the skin of the face as well as cheekbones, forehead, chin, lips, ears and lobes entirely disappeared and they were quite reduced to their original shape. Also swelling of the hands and legs with fingers and toes altogether disappeared. The deep ulcer of the palate quite heald up within one month and nasal discharge passing as usual. The insensibility of the hands and feet with fingers and toes disappeared within 8 months.

CASE No. VI.

Mahadev Vitto, caste Maratha Koli, aged 35 years, residing at Chamul Pada, Taluka Karanja. He was suffering from anæsthetic leprosy for about two years and a half. The swelling and thickness of the skin observed over the forehead, nose and cheeks ; at the same time the lobes of the ears began to enlarge. The surface of both legs, feet and the toes became thickened and swollen. There was loss of sensation in both the hands and legs; the treatment commenced on the 14th of August 1890.

In this case swelling and thickness over the forehead nose and cheekbones subsided. The swelling of the lobes of the ears and enlargement disappeared and they turned to the original

form. Thickening and swollen surface of both the legs and feet entirely subsided. The sensation returned in both the hands and legs. The patient completely cured.

The treatment was continued from the 14th of August 1890 upto the 16th of September 1891.

CASE No. VII.

M. I. M. Caste Portuguese, aged 35 years, residing at Parla, Tanna collectorate. He was suffering from anæsthetic leprosy for 2½ years. There was thickening of the skin over the face, nose and ears, with numerous small, circular, elevated, insensible, brownish, black-coloured patches over the forehead, temples, cheekbones, chin, back, chest, abdomen and both the hands and legs. There was pricking sensation in the skin of hands and legs; the skin over the fingers and toes being insensible to touch.

In this case, thickening of the skin of the face, nose, cheekbones, forehead disappeared and the circular, elevated, insensible, brownish-black patches over the temples, chin, back, chest, abdomen and both the hands and legs all subsided. The skin over these parts regained its original colour. The ears turned to natural form and colour. The patient is entirely free from the disease. The patient was under treatment from 15th of August 1890 upto 15th of July 1891.

CASE No. VIII.

R. G. M. Caste Portuguese, aged 40 years, native of Bandora. Tanna Collectorate, admitted on the 1st of December 1890, having tuberculous leprosy with which she was suffering for seven or eight years. The face strongly marked with tuberculous blotches of brownish colour; also there being thickening of the skin over the cheekbones, nose, chin and forehead.

The upper and lower lips as well as lobes of the ears with their margins were enormously enlarged.

Both the hands were quite insensible. The insensibility extended to the elbow joint in the upper limbs and also to the knee joint in the lower limbs. Though the affected parts were insensible to the touch, the patient complained of a deep seated pain and a burning sensation to the anæsthetic parts.

In this case at the end of the 18 months the notes recorded are :—Thickening of the skin of the face, the tuberculous blotches, over the forehead, cheekbones, nose, chin, the upper and lower lips, lobes of the ears, altogether subsided and they were reduced to natural shape and colour. The itching and burning sensation and glossiness of the skin entirely disappeared. The insensibility of the hands, feet with fingers and toes had been restored. The ulcer of the toe of the right foot healed up. General health fair.

CASE No. IX.

W. H. Caste Brahmin, aged 12 years, residing at Umrawathi for the present. He was suffering from anæsthetic leprosy for four years. The treatment commenced from the 17th of December 1890.

He had thickened, elevated, irregular, discoloured and insensible patches over the cheekbones, temples, both the legs, hands, feet, back, and cheeks.

There were three patches over the right arm which were insensible and discoloured.

In this case, thickness and elevations of the discoloured patches became less marked within two months. At the end of seven months the thickness, elevations, and insensibility of the discoloured patches over the cheekbones, temples, both the legs, hands and feet, back and chest disappeared, with three patches over the right arm. The notes recorded are:—The skin assumed its natural colour, all the thickening of elevated and discoloured patches disappeared. No trace of the thickening and discoloration perceptible. The treatment was commenced for 14 months from the 17th of December 1890 to the 15th of February 1892. The patient is entirely free from the disease.

CASE No. X.

P. G. T.—Caste Brahmin, aged 40 years, inhabitant of Arwee, Zilla Nagpore, District Vardha ; admitted with anæsthetic leprosy which was recognised as such 6 years ago. There was thickening of the skin over the face, forehead, cheek-bones, nose and chin; also there were numerous black-coloured patches of various sizes, circular and irregular in outlines on the back; elbows, and interior surface of his legs hands and fingers were flabby and glossy.

In this case thickening of the skin over the face, forehead, cheekbones, nose and chin and the circular patches of discolouration of various sizes over the back, elbows and outer surface of the legs, disappeared and the skin resumed its natural colour and sensibility. The treatment commenced on the 27th of January 1891 and dropped in May 1892.

CASE No. XI.

P. R. M.—Caste Parsi, residing in Khethwady No. 10 Lane, aged 36 years, suffering from anæsthetic leprosy for about 10 years. There was swelling over the whole skin of his face, forehead, nose, cheekbones, and chin, which had become copper-coloured with tuberculous elevations. The ears with margins were swollen and enlarged. Feet and legs with fingers and toes were swollen and insensible. The treatment commenced from the 3rd of May 1891.

In this case notes recorded on the 15th of April 1894 after the treatment for nearly two years and a half. The copper-coloured patches over the cheekbones, chin, forehead and nose with tuberculous elevations completely disappeared and the skin assumed the natural color. Swelling and enlargement of the ears with margins entirely disappeared. The sensation of the hands and fingers was completely restored. General health is fair.

CASE No. XII.

L. De souza, caste Portuguese, aged 35 years, at present residing at Ahmedabad. He was suffering from anæsthetic leprosy for about four months. There was thickening

over the fore-head, nose, cheeks, chin, chest and back with discoloured, red, elevated patches. The lobes of the ears were enlarged and discoloured. The hands with fingers and legs with toes were slightly swollen. All these discoloured red patches were insensible. There was pricking and burning sensation over his whole body.

In this case after six months' treatment there was a good deal of improvement in the patient. The thickening of the diseased parts was quite reduced to the normal level. The copper-coloured elevated patches over the diseased parts turned pale. The lobes of the ears were much reduced and numbness of the patches gone.

Notes recorded on the 18th of November 1892, are:—The thickening of the face and the lobes of the ears with elevated, red, discoloured patches subsided, regaining natural aspect. The sensation was entirely restored to the diseased parts.

The patient is entirely free from the disease. General health is fair. The treatment commenced from the 7th of May 1891, upto the 18th of November 1892.

CASE No. XIII.

J. Frances Lopes, Caste Portuguese, aged 40 years, residing at Bandora, Cholly Pakhadi. He was suffering from anæsthetic leprosy for 9 months. There was thickening of the skin over the face, forehead, cheeks, and nose with elevated copper-coloured patches over the back and chest. The lobes of the ears were swollen and discoloured. Pricking and burning sensation was to the hands and legs.

In this case, thickening of the skin over the face, forehead, cheeks, nose, with elevated copper-coloured patches and also those over the back and chest disappeared and the skin assumed the natural colour and shape. Pricking and burning sensation to the hands and legs also disappeared. Treatment commenced from the 9th of April 1892 to the 15th of May 1893.

CASE No. XIV

L. Mascarines—Caste Portuguese, aged 18 years, residing in Khetwady 9th lane, Kemroodin's chawl, suffering from anæsthetic leprosy for 6 months. There were two copper-coloured elevated patches over the forehead, cheek-bones, and chin. Both the ears were swollen and the lobes enlarged. The right hand with fingers and both the legs with toes were swollen and partly insensible.

In this case, copper-coloured, elevated patches over the forehead, cheekbones, chin and the swelling and enlargement of both the ears disappeared and they assumed the natural shape. The swelling and insensibility of the right hand with fingers and of both the legs with toes disappeared.

Treatment Commenced from the 8th of September 1892 upto the 15th of November 1893.

CASE No. XV.

B—Caste Brahmin, aged 35 years, residing at Ahamad-nagar. He was suffering from anæsthetic leprosy for two years and a half after its development. Skin of the forehead, nose, cheeks and lobes of both the ears thickened. Black and reddish patches of elevated skin seen on the trunk. There were two big elevated patches, one over the back and one very large on his right arm. There was slight swelling to the hands, and feet, with fingers and toes. All the elevated discoloured patches were insensible to touch.

In this case, swellings lessened and discolouration became less marked within six months. At the end of one year, the thickening disappeared and swellings altogether subsided. The big patches over the back and the right arm, elevated and discoloured, completely disappeared. The patient is now completely free from the disease. Treatment commenced from the 10th of August 1893 to the 10th of June 1895.

CASE No. XVI

S. K. B., caste Brahmin, aged 35 years, residing at Chewool near Bombay, suffering from tuber-culous leprosy for about one year. There was thickening and swelling over the whole skin of the face, forehead, and chin, which had become copper-coloured ; also copper-coloured patches of elevation over the back, chest and outer surface of the legs. These patches and those over the face and chest being interrupted by thick nodules of various sizes. Hands and legs with fingers and toes, also lobes of the ears including their margin, were flabby and insensible. The treatment commenced from the 1st of October 1893.

In this case, notes recorded on the 1st of August 1894, are :—Thickness and swelling over the whole of the surface of the body, as well as discoloured patches have all disappeared and sensation has been restored. The skin, covering the back of both hands and fingers and that over a large portion of legs and toes, has assumed its natural colour. After ten month's treatment the patient was thoroughly cured.

CASE. No. XVII

Frances Fernandez, caste portuguese, aged 35, by profession a fitter, residing at Dhobee Tallow. He was suffering from anxsthetic leprosy for seven or eight months. The whole of the skin of the face was thickened. There were several circular and irregular brown coloured patches over the forehead, cheek bones, chin, nose and the lobes of the ears. The skin covering the surface of both the hands, and the toes was thickened. There was loss of sensation in both the hands with fingers ; also there was pricking and burning sensation over the whole body. The treatment commenced on the 8th of December 1893.

In this case notes recorded on the 15th of November 1894 after treatment of eleven months. He is now perfectly free from the disease for the last fourteen months.

CASE No. XVIII

P. L. Pereira, caste Portuguese, aged 30 years, residing at Bandora, Tanna collectorate, suffering from anæsthetic leprosy for one year. There was thickening over the forehead, cheekbones, nose, and ears with copper-coloured elevated patches. The hands and feet with fingers and toes were partly insensible to touch. There was only pricking and burning sensation to the diseased parts.

In this case, thickening, swelling and discolouration of the patches became less marked within the course of four months. At the end of eight months discolouration, swelling and thickness completely disappeared. The sensation in the skin of arms as well as that of hands and feet with toes and fingers was completely restored. Treatment commenced from the 21st of May 1894 to the 31st of December 1895.

CASE No. XIX

S. P., caste Maratha, aged 21 years, residing in Vittal Wady ; suffering from anæsthetic leprosy since two years. There were large and small copper-coloured patches over the whole body. Ears were swollen and red in colour.

In this case the large and small copper-coloured patches over the whole body have entirely disappeared. Ears turned to the original shape and colour. The patient is thoroughly cured from the disease. The treatment commenced on the 8th of June 1894 and was continued upto the 15th of April 1895.

CASE No. XX

Concecio De' souza, caste Portuguese, aged 45 years, residing in Remount stable at Girgaum. She was suffering from anæsthetic leprosy for one year and a half. There were elevated discoloured patches over the check-bones, breast, back, hands and legs. Also there was pricking and burning sensation all over the body.

In this case the elevated discoloured patches over the cheekbones, breast, back, hands and legs, have disappeared altogether. The pricking and burning sensation all over the body abated. The patient is now free from the disease.

The treatment was commenced from the 12th of December 1894, and continued upto the 31st of August 1895.

CASE No. XXI

Antone De' Souza, caste Portuguese, aged 23 years, reding at Changood Nobabraja Darvarad at Goa ; suffering from anæthetic leprosy for one year and a half.

There was thickening over the cheekbones, chin, forehead and ears, all copper-coloured. The hands and feet with fingers and toes, were swollen and insensible to touch in some parts. There was pricking and burning sensation in the system.

In this case, thickening of the cheekbones, chin, forehead and ears with copper colour discolouration disappeared entirely at the end of seven months. The swelling and insensibility of the hands and feet with fingers and toes restored at the end of eleven months. Now the patient is completely cured of the disease; the treatment commenced from the 20th of December 1894. to the 31st of December 1895.

CASE No. XXII

B. V. Caste Brahmin, aged 35 years, inhabitant of Wadgaum, suffering from tuberculous leprosy for four years. After six month's treatment I examined him on the 20th of January 1893 when I found out that he was attacked with tuberculous leprosy of aggravated form. There was thickening of the skin over the forehead, cheekbones, nose and chin with tubercles, blotches of brownish black colour. The tubercles were well defined and they presented an aweful appearance of the skin particularly over the face.The lobes of the ears with their

margin were enormously enlarged, thickened and covered with brownish tubercles. Both the hands and feet with fingers and toes were swollen and insensible. Both the legs were swollen and there were four ulcers at the bottom of the feet, two being deep and large and two small. There were light elevated brownish black-coloured patches over the back and over the chest which were insensible to touch.

In this case the thickening of the skin over the forehead cheekbones, nose and chin with tuberculous blotches of brownish black colour disappeared. The lobes of the ears with their margin turned to natural shape and colour. Both hands and feet with fingers and toes almost reduced to their natural size and sensation returned to all parts. The swelling of the legs subsided, three ulcers healed up entirely and one deep ulcer is nearly healed up .All the elevated brownish black-coloured patches over the back and chest all disappeared and the sensibility restored to the parts.

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